

#### LCCA30090-FT1



### Configuration

· Connector 1: BNC Female

Connector 2: BNC Female Bulkhead

Cable Type: LC141TB

#### **Features**

Max Frequency 20 GHz

Shielding Effectivity > 100dB

• PTFE Dielectric with 69.9% VoP

### **Applications**

- General Purpose
- · Laboratory Use

- Hand Formable
- Tin Filled Copper Braid Outer Conductor
- · System Interconnect



#### Description

L-com's LCCA30090-FT1 is a BNC female to BNC female bulkhead cable assembly using LC141TB coax, 1 FT and ships same-day. The LC141TB coax of this BNC cable uses the PTFE dielectric with a VoP of 69.5%. These formable RF cable assemblies are a great alternative to expensive semi-rigid assemblies because they can be hand formed to fit specific designs. Our L-com BNC to BNC cable assembly has a female to female gender configuration with formable LC141TB series coax and operates to 20 GHz. The tinned copper braid outer conductor is easily formed by hand with an overall diameter of 0.141 inches and excellent shielding effectiveness greater than 110dB. L-com's RF cable assembly with BNC bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

Custom versions of this BNC female to BNC female cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30090-FT1 L-com BNC Female to BNC Female Bulkhead Cable Assembly using LC141TB Coax, 1 FT data sheet PDF includes details of the RF product specifications. CAD drawing(s) and dimensions below.



#### LCCA30090-FT1



# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Co	nductor	7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Co	onductor	5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Max.)	0.32	0.37	0.47	0.62	0.9	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per connector.

## **Mechanical Specifications**

### **Cable Assembly**

Length 12 in [304.8 mm]
Diameter 0.025 in [0.64 mm]

### Cable

Cable TypeLC141TBImpedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, SilverDielectric TypePTFE

Dielectric Type P
Number of Shields 0

Outer Conductor Material and Plating Tinned Copper Braid
Outer Conductor Diameter 0.141 in [3.58 mm]

Repeated Minimum Bend Radius 0.625 in [15.88 mm]



# LCCA30090-FT1



### **Connectors**

Description	Connector 1	Connector 2	
Туре	BNC Female	BNC Female Bulkhead	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating		Brass, Gold over Nickel	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel	

# **Environmental Specifications**

**Temperature** 

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

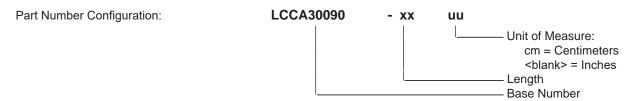
• Values at 25°C, sea level.



# LCCA30090-FT1



#### **How to Order**



Example: LCCA30090-12 = 12 inches long cable

LCCA30090-100cm = 100 cm long cable

BNC Female to BNC Female Bulkhead Cable Assembly using LC141TB Coax, 1 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

# **L-com CAD Drawing**

